

Re-run



RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/640,211A

DATE: 08/06/2002
TIME: 15:30:22

Input Set : N:\paola\US09640211A.RAW
Output Set: N:\CRF4\08062002\I640211A.raw

1 <110> APPLICANT: Wood, Marion
2 Shenk, Michael A.
3 McGrath, Annette
4 Glenn, Matthew
5 <120> TITLE OF INVENTION: Compositions and Methods for the
6 Modification of Gene Transcription
7 <130> FILE REFERENCE: 11000.1021C1U
C--> 8 <140> CURRENT APPLICATION NUMBER: US/09/640,211A
9 <141> CURRENT FILING DATE: 2000-08-16
10 <160> NUMBER OF SEQ ID NOS: 2368
11 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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14 <211> LENGTH: 396
15 <212> TYPE: DNA
16 <213> ORGANISM: Eucalyptus grandis
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19 tcaaagctct gtgctttcca ccgaaaggac tccagcagaa aggactcgtc gtcattggcg 120
20 agagagatga tctgggcttg agcttgagcc tgagcttccc tcagggtcac ctgcatcagc 180
21 agcagcagca gcagcagcag cagtccctgc agctgaacct catgccctcc ttggtcccgt 240
22 cctctgcttc gtctgtccta tctgggttca atcttcagaa gcgctcctgc aacgacgcct 300
23 tcccttcttc ttcatatcgg aactccgagg cgcatcggt cctccggggg atcgacgtga 360
24 acagagagcc gtcggcgggg gcggcgggcg actacg 396
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27 <211> LENGTH: 725
28 <212> TYPE: DNA
29 <213> ORGANISM: Eucalyptus grandis
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33 caagcgcaaa aggttaattat attaaagccag tgagtgaatt aacttgattc ttctagagct 180
34 tctcaccaac taaaaattca aaatgaagta atgcaggtga aaatagcagt gaccgcttca 240
35 tgtagattaa ggaaaattgt aaactaaact ccttccgagt cgtgcatgtg ctcatgatcc 300
36 agtggcacat atggttggtg gcaaatgaag cgcgaaattc ttttgattct gtagaggaag 360
37 agcctaacad agatgagaaa aatctgcca ctttctgctg ctgtaaagga accacaaact 420
38 aaattcggag ggcagatcca aaacttatac ccgcatcacg tggaagtcct ggaataaaga 480
39 ttgctgtctc gtaaattatg tgaacgatt ctgctgcacg ggctgatggg tgtaattttt 540
40 gtttaccata ttcatatatg tgaataagta cagagaaggg ttgtgggtgt atagtacaat 600
41 agctctcggt tagttccata cacgtatagt agatagagat tatagcatgt taggtgttgt 660
42 catttctact gtagtgtacg cttgtgaagc aaatgtagct tggctttgat taacaaaaaa 720
43 aaaaa 725
45 <210> SEQ ID NO: 3
46 <211> LENGTH: 875

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52      aagcctcgag agagactggg gtcgtgttcg tcgacctccc ccgcctcgtg caaagtttca      180
53      tggacgtgaa tcaatggaag gaaatgtttc cttgcatgat ctcaaaggca gcaactgtgg      240
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56      agcagctcag cgcagagcag tgggccttag ttgatgtctc catcgaaaaa gtcgaagata      420
57      acatcgacgc ctctcttggt aaatgcagga aacgcccctc cggctgcata atcgaggata      480
58      aatccaacgg ccattgtaag gtaatctggg tagaacactt ggagtgccag aaaaccaccg      540
59      ttcaccccat gtaccgtacc atcggttaaca gcggcctagc ctttggcgca agacactgga      600
60      tgacgacact gcaagtccag tgcgagcggc tcgttttctt tatggcgact aatgttccaa      660
61      ccaaagattc gaatggtgtc gccacacttg caggaaggaa gagcattttg aggtcggcac      720
62      agaggctgac acaaagcttt tgcagggcca ttggagcatc gagctatcac agctggacca      780
63      aggtcccaac taaaactgga gaggacatta ggggtggcttc taggaaaaat ctgaatgata      840
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69 <213> ORGANISM: Eucalyptus grandis
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81      ggatctagag ccatggagtg tgccatgaagt actgcgacca ttgtatgagt cctccacaat      180
82      gcttgctcag aagacgacaa tggcagctct gcgacagctg aggcagatag ctccaggagt      240
83      ttcacagcct aatgtttctg gctggggaag gcgacctgca gcacttagag ctcttagcca      300
84      gaggttaagc aggggattta atgaggctct taatggattt actgatgaag gatggctgat      360
85      catggggaat gatggcattg atgatgtcac tattctcgtg aattcatccc ctgacaagct      420
86      aatgggattg aatctttcgt tttcaaattg attcccagct gtgagcaacg ctgttctatg      480
87      cgcgaggggc tctatgctct tgcagaatgt gcctcctgca gtctccttc gcttccttcg      540
88      tgagcacagg tcagaatggg ctgacaacag tattgatgca tactcagccg cagcagttaa      600
89      agttgggttc tgtgctttac ctggatcacg tattgggagt ttcgggggtc aggttatact      660
90      tccacttgct catactattg agcatgaaga gttcttggag gtcacaaat tagaaggat      720
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92      tggagtggat g      791
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95 <211> LENGTH: 403
96 <212> TYPE: DNA
97 <213> ORGANISM: Eucalyptus grandis
98 <400> SEQUENCE: 6

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101     ctccacgtgc ctcacgatat gcttgcccgg cggggaggcg tgcgggctgg gatccgcgag      180
102     tggggacgag gtcaggaaca tcccgagcag gtcggcatcg tcgtttctcaa actcaagcag      240
103     tgcgaagagg gagaaggcgg agcaaggaga ggaagaagcg gttgagagag ggacgggctc      300
104     gccgaggcgg actatcaata tcgaagatga agatgagttc agccccagga agaagctcag      360
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109 <212> TYPE: DNA
110 <213> ORGANISM: Eucalyptus grandis
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113     atattcaaat ccgattctct ctctagcctc cccgtcgccg ctgtcgtcgc cggtcgccgt      120
114     cgccgtcgca gagccgcgga ggaggagagg gagagagaga gagagagcgg agagacgccg      180
115     gtgcggggat ggggcagcag tcgctgatct acagcttcgt ggcgcggggg acggtgatcc      240
116     tggcggacta cacggagttc accggcaact tcaccagcgt cgcttccag tgctccaga      300
117     agtccccgc caccaacaac aagttcacct acagctgcga cggccacacc ttcaacttcc      360
118     tcgtcgacga cggttcaca tactgtgtgg tggcgttga atctgtcggc cggcaagttc      420
119     caattgcttt ccttgagcga gtcaaggatg attttacaaa gagatatggc ggtggaaaag      480
120     ctgcaactgc agttgccaaa agcctaaaca aggaatttgg gtccaaattg aaggagcaga      540
121     tgcagtactg tgtggatcat ccagaggaga tcagcaagct tgctaaagta aaagcccagg      600
122     tttcagaagt aaaaggagtt atgatggaaa atatcgagaa agttcttgat cgtggagaga      660
123     aaattgagct tctggtcgac aaaactgaga acctccgac ccaggcaca gatttcaggc      720
124     agcagggtac tcagatcaga aggaagatgt ggctgcagaa catgaagatc aagctgatcg      780
125     tactcggcac tttgatcgct ttgattctca tcatcgtctt atccatttgt ggcaatggca      840
126     aatgtaaata aattttggag ctttgagagag attgcattaa tttcaagtca cacacactat      900
127     ggacgcgtgt tctatatgac agtatattaat tgctgtgtaa aaaaaaaaaa aaaaa          955
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130 <211> LENGTH: 666
131 <212> TYPE: DNA
132 <213> ORGANISM: Eucalyptus grandis
133 <400> SEQUENCE: 8
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135     tgcgaagcat gcactcgagt tttgcggaaa cgaatccgga aaattaaagg agtagagaca      120
136     gtggagaccg acgtggtgaa tgaccgggta atagtcaaaag gtgtggtcga cccgccgaag      180
137     ctggtcgcat acgtgaaaaa gagaacgggg aagcaagcgt cgattgtgaa ggaagaggag      240
138     aagaaggaaag aggagaagaa ggaagaggcg aagaaggagg aaagcaaaga aggagagaag      300
139     aaggacggcg aggaagggaa ggacgaggac ggctcgaaaga tggacataaa gaagaacgag      360
140     tactggccct ccaggcctta catggaatat caaatgtacc caaccagat cttcagcgat      420
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142     ggccccagtt aagagtacgt gtcgaggcaa ttttccattg tacttaaaaga ttgctaataa      540
143     acagattcgc gagaccggga gtcgttggct aattgtaatc cgttgatgtt ctgtaatctg      600
144     tgttaccaat tgtctactct cttaatgtga aagtgtagat gaattttcag taaaaaaaaaa      660
145     aaaaaa
147 <210> SEQ ID NO: 9
148 <211> LENGTH: 352
149 <212> TYPE: DNA
150 <213> ORGANISM: Eucalyptus grandis

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154      cgaaccggca ggtcaccttt tgtaaacgcc ggaacgggtt gttgaagaag gcttatgagc      180
155      tatcgtgttt gtgcgatgct gaagtggcgc ttattgtctt ctcgagccgt ggcaggctct      240
156      atgaatatgc taacaacagt gtcagaggaa caattgagag gtacaagaaa gcaagcagtg      300
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163 <400> SEQUENCE: 10
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166      ggcgacccca aggtctccat catcatgata tccagcaccg gcaagctcca cgagtacatc      180
167      agcccctcca cctcaacgaa gaagatgtac gatcagtatc agcaggcgct cgagggttgat      240
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174      gacgcgcgcg ccgcccgtcg cttgtacacc ctgcgcctgc aaccggacca gcccaatcct      660
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178      agctaagttt gttcttatca gaagctgttc ctattatgga ccgagggcga tttcctctag      900
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185 <213> ORGANISM: Eucalyptus grandis
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188      ttcccccttt ctccctctcg ctccgtccac gaagcaagca agctctccgc gaagatccct      120
189      tccttgttgt taccaaattg gttgaagctt cttgtgggtt gctggacctg cagattttgg      180
190      ttaataaatg agtcagaagg gccttatata tagctttgtg gcgaaaggga ctgttgttct      240
191      ggccgagcac acgcaatttt cgggaaactt tagtactatt gctgtgcagt gcttgcagaa      300
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194      tttcgtgttt cttgagcgag tgaaggatga ctttatgcag cattatagtg ccagcattgc      480
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199 <212> TYPE: DNA
200 <213> ORGANISM: Eucalyptus grandis
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205      gcagcgctgg cccttctggc ataaataaga cgcttgaacg ataccaacgt gacaacttca      240
206      ctccctcaaga caacgttgct gaacatgaga cacaacagaa ctgggtttcaa gagatatcaa      300
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212 <213> ORGANISM: Eucalyptus grandis
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215      tgcaattgac acagattaat aattggttta taaaccaacg gaaaagaaat tggcacagca      120
216      acccttcgtc ttccacagtt cccaagagca aacgcaagag aagccatgca ggtgatccgg      180
217      ataaagagag acctatg      197
219 <210> SEQ ID NO: 14
220 <211> LENGTH: 182
221 <212> TYPE: DNA
222 <213> ORGANISM: Eucalyptus grandis
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236      acccagaagt gcatggcctg tgagaagaca gtctatctgg tggacaagct cacagctgac      180
237      aatagaatct accacaaggc ctgcttcaga tgccaccatt gcaaagggac tctcaagctt      240
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239      aagagaactg gcagcctcga aaaaagcttt gaaggaaccc ccaagattgc aaagccagag      360
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246      ggccagcgga ttccaggctg gtccaaaaac ctgttatgct attagagaat ctatgtccat      780
247      ctactaaatt tgagatgtgt gagccttgac cggtttgatt tggcttctgt tttgcgattg      840
248      cggatgattt ctcggttggt ttgtaagcgt agaataagtg gtgcttgctt cttgactttg      900
249      tgaaacctct gagcttgctt tcttttcagt cttgtccagc gagtgtgtct agcatcatcc      960
250      ctatttttca aaaaaaaaaa aaa      983
252 <210> SEQ ID NO: 16
253 <211> LENGTH: 397
254 <212> TYPE: DNA
255 <213> ORGANISM: Eucalyptus grandis

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1183; N Pos. 306,313
Seq#:1186; N Pos. 10,156
Seq#:1189; N Pos. 245,281
Seq#:1196; N Pos. 52,155,435
Seq#:1199; N Pos. 242
Seq#:1200; N Pos. 102,366
Seq#:1206; N Pos. 57
Seq#:1222; N Pos. 19,99
Seq#:1224; N Pos. 54
Seq#:1225; N Pos. 134
Seq#:1227; N Pos. 199,222
Seq#:1230; N Pos. 105,163,267
Seq#:1233; N Pos. 12
Seq#:1237; N Pos. 146,151,153
Seq#:1240; N Pos. 14
Seq#:1273; N Pos. 11
Seq#:1278; N Pos. 234
Seq#:1282; N Pos. 330,354
Seq#:1292; N Pos. 199
Seq#:1297; N Pos. 488
Seq#:1298; N Pos. 207
Seq#:1314; N Pos. 306
Seq#:1332; N Pos. 210
Seq#:1335; N Pos. 3
Seq#:1351; N Pos. 194,197,200
Seq#:1352; N Pos. 348
Seq#:1360; N Pos. 40,55,118
Seq#:1363; N Pos. 68
Seq#:1370; N Pos. 67
Seq#:1374; N Pos. 237
Seq#:1385; N Pos. 333
Seq#:1387; N Pos. 65
Seq#:1390; N Pos. 202
Seq#:1392; N Pos. 207
Seq#:1396; N Pos. 145,146,147,150
Seq#:1400; N Pos. 13
Seq#:1411; N Pos. 28,448
Seq#:1421; N Pos. 248
Seq#:1424; N Pos. 187,208,235
Seq#:1432; N Pos. 156
Seq#:1436; N Pos. 11,29
Seq#:1441; N Pos. 30
Seq#:1442; N Pos. 6,29,45,171
Seq#:1444; N Pos. 98

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Seq#:1473; N Pos. 430
Seq#:1475; N Pos. 240
Seq#:1476; N Pos. 90,120
Seq#:1480; N Pos. 393
Seq#:1483; N Pos. 291,333
Seq#:1484; N Pos. 212
Seq#:1496; N Pos. 410
Seq#:1503; N Pos. 133
Seq#:1506; N Pos. 287,446,462,463
Seq#:1511; N Pos. 275
Seq#:1514; N Pos. 10,24
Seq#:1516; N Pos. 38
Seq#:1519; N Pos. 29
Seq#:1530; N Pos. 87
Seq#:1535; N Pos. 424
Seq#:1540; N Pos. 285,286
Seq#:1541; N Pos. 331
Seq#:1578; N Pos. 20,120
Seq#:1588; N Pos. 78
Seq#:1593; N Pos. 222
Seq#:1596; N Pos. 172
Seq#:1599; N Pos. 60
Seq#:1601; N Pos. 399
Seq#:1610; N Pos. 161
Seq#:1614; N Pos. 53
Seq#:1615; N Pos. 35,93,103,120,124,150,152,164,167
Seq#:1617; N Pos. 62
Seq#:1647; N Pos. 325
Seq#:1653; N Pos. 2
Seq#:1665; N Pos. 102
Seq#:1678; N Pos. 312
Seq#:1703; N Pos. 172
Seq#:1713; N Pos. 321
Seq#:1728; N Pos. 231
Seq#:1730; N Pos. 3
Seq#:1731; N Pos. 64
Seq#:1735; N Pos. 161
Seq#:1743; N Pos. 56,129,181
Seq#:1746; N Pos. 34,35
Seq#:1748; N Pos. 44
Seq#:1749; N Pos. 45
Seq#:1754; N Pos. 336
Seq#:1755; N Pos. 228,263
Seq#:1760; N Pos. 227
Seq#:1762; N Pos. 165,202
Seq#:1766; N Pos. 33,367
Seq#:1775; N Pos. 42,43,49,54,55,58,68,78,85

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 08/06/2002
PATENT APPLICATION: US/09/640,211A TIME: 15:30:23

Input Set : N:\paola\US09640211A.RAW
Output Set: N:\CRF4\08062002\I640211A.raw

Seq#:1785; N Pos. 135,213
Seq#:1790; N Pos. 305
Seq#:1796; N Pos. 47
Seq#:1808; N Pos. 245
Seq#:1811; N Pos. 344
Seq#:1858; N Pos. 141
Seq#:1863; N Pos. 10
Seq#:1867; N Pos. 178,182,251,291
Seq#:1870; N Pos. 160,203,230
Seq#:1877; N Pos. 32,231
Seq#:1881; N Pos. 5
Seq#:1886; N Pos. 17,68,86,92,401,403
Seq#:1889; N Pos. 79

VERIFICATION SUMMARY

DATE: 08/06/2002

PATENT APPLICATION: US/09/640,211A

TIME: 15:30:23

Input Set : N:\paola\US09640211A.RAW

Output Set: N:\CRF4\08062002\I640211A.raw

L:8 M:270 C: Current Application Number differs, Wrong Format

L:22966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1183 after pos.:300
L:23001 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1186 after pos.:0
L:23003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1186 after pos.:120
L:23048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1189 after pos.:240
L:23138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1196 after pos.:0
L:23140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1196 after pos.:120
L:23145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1196 after pos.:420
L:23184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1199 after pos.:240
L:23202 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1200 after pos.:60
L:23207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1200 after pos.:360
L:23285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1206 after pos.:0
L:23487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1222 after pos.:0
L:23488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1222 after pos.:60
L:23516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1224 after pos.:0
L:23534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1225 after pos.:120
L:23562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1227 after pos.:180
L:23602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1230 after pos.:60
L:23603 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1230 after pos.:120
L:23605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1230 after pos.:240
L:23643 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1233 after pos.:0
L:23704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1237 after pos.:120
L:23751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1240 after pos.:0
L:24199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1273 after pos.:0
L:24270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1278 after pos.:180
L:24325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1282 after pos.:300
L:24453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1292 after pos.:180
L:24522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1297 after pos.:480
L:24537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1298 after pos.:180
L:24757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1314 after pos.:300
L:24982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1332 after pos.:180
L:25018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1335 after pos.:0
L:25223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1351 after pos.:180
L:25241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1352 after pos.:300
L:25347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1360 after pos.:0
L:25348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1360 after pos.:60
L:25391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1363 after pos.:60
L:25477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1370 after pos.:60
L:25527 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1374 after pos.:180
L:25669 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1385 after pos.:300
L:25694 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1387 after pos.:60
L:25737 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1390 after pos.:180
L:25762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1392 after pos.:180
L:25823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1396 after pos.:120
L:25880 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1400 after pos.:0
L:26030 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1411 after pos.:0
L:26037 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1411 after pos.:420
L:26173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1421 after pos.:240

VERIFICATION SUMMARY

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L:26214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1424 after pos.:180
L:26318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1432 after pos.:120
L:26371 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1436 after pos.:0